

Welcome to STN International! Enter x:
x
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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock
NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 27 Oct 21 EVENTLINE has been reloaded
NEWS 28 Oct 24 BEILSTEIN adds new search fields
NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT
NEWS 32 Nov 25 More calculated properties added to REGISTRY
NEWS 33 Dec 02 TIBKAT will be removed from STN
NEWS 34 Dec 04 CSA files on STN
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 36 Dec 17 TOXCENTER enhanced with additional content
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 38 Dec 30 ISMEC no longer available
NEWS 39 Jan 21 NUTRACEUT offering one free connect hour in February 2003
NEWS 40 Jan 21 PHARMAML offering one free connect hour in February 2003
NEWS 41 Jan 29 Simultaneous left and right truncation added to COMPENDEX,
ENERGY, INSPEC
NEWS 42 Feb 13 CANCERLIT is no longer being updated
NEWS 43 Feb 24 METADEX enhancements
NEWS 44 Feb 24 PCTGEN now available on STN
NEWS 45 Feb 24 TEMA now available on STN

NEWS 46 Feb 26 NTIS now allows simultaneous left and right truncation
NEWS 47 Feb 26 PCTFULL now contains images
NEWS 48 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 49 Mar 19 APOLLIT offering free connect time in April 2003
NEWS 50 Mar 20 EVENTLINE will be removed from STN
NEWS 51 Mar 24 PATDPAPULL now available on STN
NEWS 52 Mar 24 Additional information for trade-named substances without
structures available in REGISTRY
NEWS 53 Mar 24 Indexing from 1957 to 1966 added to records in CA/CAPLUS

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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***** STN Columbus *****

FILE 'HOME' ENTERED AT 11:03:00 ON 25 MAR 2003

=> fil reg\
'REG\' IS NOT A VALID FILE NAME
SESSION CONTINUES IN FILE 'HOME'
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

=> fil reg	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 11:03:15 ON 25 MAR 2003
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STRUCTURE FILE UPDATES: 24 MAR 2003 HIGHEST RN 500530-01-8
DICTIONARY FILE UPDATES: 24 MAR 2003 HIGHEST RN 500530-01-8

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> e vitamin?

E1	1	VITAMEDIN/BI
E2	1437	VITAMIN/BI
E3	0	--> VITAMIN?/BI
E4	3	VITAMINS/BI
E5	1	VITAMISIN/BI
E6	2	VITAMIURAM/BI
E7	1	VITAMOGEN/BI
E8	2	VITAMYCIN/BI
E9	6	VITAN/BI
E10	1	VITANEURIN/BI
E11	1	VITANEURON/BI
E12	1	VITANEVRIL/BI

=> e vitaminb12

E1	1	VITAMEDIN/BI
E2	1437	VITAMIN/BI
E3	0	--> VITAMINB12/BI
E4	3	VITAMINS/BI
E5	1	VITAMISIN/BI
E6	2	VITAMIURAM/BI
E7	1	VITAMOGEN/BI
E8	2	VITAMYCIN/BI
E9	6	VITAN/BI
E10	1	VITANEURIN/BI
E11	1	VITANEURON/BI
E12	1	VITANEVRIL/BI

=> e b12

E1	1	B11ZN04502/BI
E2	1	B11ZN045021/BI
E3	9324	--> B12/BI
E4	3	B12, H12/BI
E5	1	B12.053/BI
E6	1	B12.1/BI
E7	1	B12.15/BI
E8	3	B12.2/BI
E9	1	B12.3/BI
E10	1	B12.4/BI
E11	1	B12.5/BI
E12	1	B12.6/BI

=> e cobalamin

E1	1	COBALAFLUOR/BI
E2	17	COBALAMIDE/BI
E3	516	--> COBALAMIN/BI
E4	26	COBALAMINE/BI
E5	1	COBALAMINELACTAM/BI
E6	1	COBALAMINMONO/BI
E7	1	COBALAMINMONOCARBOXYL/BI
E8	1	COBALAMINMONOCARBOXYLIC/BI
E9	2	COBALAMINSULFONIC/BI
E10	1	COBALAMINTRI/BI
E11	1	COBALAMINTRICARBOXYL/BI
E12	1	COBALAMINTRICARBOXYLIC/BI

=> s e3 or e4

516 COBALAMIN/BI

26 COBALAMINE/BI

L1 531 COBALAMIN/BI OR COBALAMINE/BI

=> e cobalamin/cn

E1 1 COBAL ALLOY, NONBASE, FE 55-58, NI 34.0-35.0, CO 5.00-6.00, TI
2.30-2.80, SI 0-0.50, CU 0.20-0.40, MN 0-0.40, C 0-0.05 (35NKT)/
CN
E2 1 COBALAFLUOR Y/CN
E3 1 --> COBALAMIN/CN
E4 1 COBALAMIN (5'-PHOSPHATE) SYNTHASE (AGROBACTERIUM TUMEFACIENS
STRAIN C58 GENE COBS)/CN
E5 1 COBALAMIN (5'-PHOSPHATE) SYNTHASE (BRUCELLA MELITENSIS STRAI
N 16M GENE BMEI1100)/CN
E6 1 COBALAMIN (5'-PHOSPHATE) SYNTHASE (COBS) (PYROBACULUM AEROPH
ILUM STRAIN IM2 GENE PAE0379)/CN
E7 1 COBALAMIN (5'-PHOSPHATE) SYNTHASE (COBS-1) (ARCHAEOGLOBUS FU
LGIDUS GENE AF0037)/CN
E8 1 COBALAMIN (5'-PHOSPHATE) SYNTHASE (COBS-2) (ARCHAEOGLOBUS FU
LGIDUS GENE AF2323)/CN
E9 1 COBALAMIN (5'-PHOSPHATE) SYNTHASE (FUSOBACTERIUM NUCLEATUM N
UCLEATUM STRAIN ATCC25586 GENE FN0912)/CN
E10 1 COBALAMIN (5'-PHOSPHATE) SYNTHASE (MESORHIZOBIUM LOTI STRAIN
MAFF303099 GENE MLR1388)/CN
E11 1 COBALAMIN (5'-PHOSPHATE) SYNTHASE (METHANOSARCINA MAZEI STRA
IN GOE1 GENE MM2057)/CN
E12 1 COBALAMIN (5'-PHOSPHATE) SYNTHASE (MYCOBACTERIUM TUBERCULOSI
S STRAIN CDC1551 GENE MT2264)/CN

=> s e3

L2 1 COBALAMIN/CN

=> d

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

SM 13478-79-1 REGISTRY

CN Cobinamide, dihydrogen phosphate (ester), inner salt, 3'-ester with 5,6-dimethyl-1'-alpha-D-ribofuranosyl-1H-benzimidazole (hepta-83), ion(1+), 16C11 (CA INDEX NAME)

OTHER ON INDEX NAMES

CN Cobinamide, hydroxide, ion(1+), dihydrogen phosphate (ester), inner salt, 3'-ester with 5,6-dimethyl-1'-alpha-D-ribofuranosyl-1H-benzimidazole

CN Cobinamide, hydroxide, ion(1+), dihydrogen phosphate (ester), inner salt, 3'-ester with 5,6-dimethyl-1'-alpha-D-ribofuranosylbenzimidazole (8C1)

CN Cobinamide, ion(1+), dihydrogen phosphate (ester), inner salt, 3'-ester with 5,6-dimethyl-1'-alpha-D-ribofuranosyl-1H-benzimidazole

OTHER NAMES

CN Cobalamine

CN Cobalamine

DE 85446-72-5

MF C62 H86 Co N13 O14 P

CI C05, C04

LC STM Files: ADIENOS, AGRIOSIA, ANABST, BIORUBINOS, BIOSIS, BIOTECNO,

CN CAPUS, CHASACT, CHINOSIS, CHILIST, CIL, CICHEN, DPU, DIOGENES,

DRUUI, ENHAGE, NICOTIC, PRONT, TOXCENTES, USPAPFULG

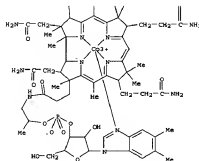
Other Sources: 8198C*

(**Enter CHEMLIST File for up-to-date regulatory information)

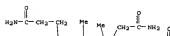
PAGE 1-A

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS (Continued)

PAGE 2-A



224 REFERENCES IN FILE CA (1962 TO DATE)
 152 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 926 REFERENCES IN FILE CAPUS (1962 TO DATE)



<C

09/690,353

Page 6

=> fil .search

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

17.14

17.35

FILE 'MEDLINE' ENTERED AT 11:07:10 ON 25 MAR 2003

FILE 'CAPLUS' ENTERED AT 11:07:10 ON 25 MAR 2003

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FILE 'EMBASE' ENTERED AT 11:07:10 ON 25 MAR 2003

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=> d his

(FILE 'HOME' ENTERED AT 11:03:00 ON 25 MAR 2003)

FILE 'REGISTRY' ENTERED AT 11:03:15 ON 25 MAR 2003

E VITAMIN?

E VITAMINB12

E B12

E COBALAMIN

L1 531 S E3 OR E4

E COBALAMIN/CN

L2 1 S E3

FILE 'MEDLINE, CAPLUS, BIOSIS, USPATFULL, EMBASE' ENTERED AT 11:07:10 ON 25 MAR 2003

=> s l1 or l2

L3 58106 L1 OR L2

=> s l3 and (chelate? or ligand?)

L4 1906 L3 AND (CHELAT? OR LIGAND?)

=> s l4 and (radionuclide?)

L5 25 L4 AND (RADIONUCLIDE?)

=> dup rem l5

PROCESSING COMPLETED FOR L5

L6 23 DUP REM L5 (2 DUPLICATES REMOVED)

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

51.79

69.14

FILE 'REGISTRY' ENTERED AT 11:08:21 ON 25 MAR 2003

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<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> fil .search

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.40

69.54

FILE 'MEDLINE' ENTERED AT 11:08:38 ON 25 MAR 2003

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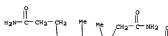
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=> d l6 ibib ab hitstr 1-

YOU HAVE REQUESTED DATA FROM 23 ANSWERS - CONTINUE? Y/(N):y

LG ANSWER 3 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)
 RN 68-19-9 CAPLUS
 CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)

PAGE 1-A



14 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 2-A



*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
IT 48-19-SDP, Cyanocobalamin, reaction p

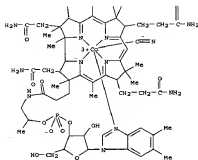
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 48-49-FDP, Cyanocobalamin, reaction products with poly-L-lysine,
OTPA conjugate

EL. SGU (Biological study, unclassified); SPN (Synthetic preparation):
BIC. (Biological study); PREP (Preparation)
(transcobalamin binding conjugates useful for treatment and diagnosis
of abnormal cellular proliferation)

RD	68-19-9	CAPLUS
CU	Vitamin B12 (B12, B12)	(CA INDEX NAME)

PAGE 2-A



IT 30218-17-82P, Cyanocobalamin-b-carboxylic acid, reaction products with poly-L-lysine hydrobromide
RL: 5PM (Synthetic preparation); PREP (Preparation)
(transcobalamin binding conjugates useful for treatment and diagnosis)

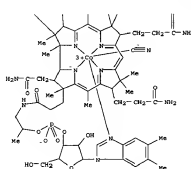
14 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)
 01 abstract; 02 abstract; 03 abstract
 RH 35218-77-8 CAPLUS
 CH cobaltic acid-adenosine, Co-(cyano-)-kappa(C)-, dihydrogen phosphate
 (ester); inner salt; 3'-ester with
 (5,6-dimethyl-1- α -D-xanthofuran-1H-benzimidazole-1-kappa(H3))
 1H-benzimidazole-1-kappa(H3) (DCI) (CA INDEX NAME)

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14 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 2-A



14 ANSWER 4 OF 23 USPTFULL
 ACCESSION NUMBER: 2002-237325 USPTFULL
 TITLE: Fluorescent cobalamins and uses thereof
 INVENTOR(S): Gleason, Charles B., Salt Lake City, UT, UNITED STATES
 Weier, Frederick G., Salt Lake City, UT, UNITED STATES
 Moore, James, Salt Lake City, UT, UNITED STATES
 Benic, Joel P., Salt Lake City, UT, UNITED STATES
 Cannon, Michelle J., Price, UT, UNITED STATES

NUMBER KIND DATE

 US 2002102463 A1 20021219
 APPLICATION INFO: US 2001-276446 A2 20020315 (10)
 RELATED APPL. INFO: Continuation-in-part of Ser. No. HQ 2000-0829370,
 Filed on 24 Oct 2000, UNKNOWN

NUMBER DATE

 US 1999-141369 19991026 (60)
 PRIORITY INFORMATION: US 2001-276446 20010316 (60)
 DOCUMENT TYPE: Utility
 FILE SOURCE: APPLICATION
 LEGAL REPRESENTATIVE: ROTHWELL, FIGG, ERNST & MANURCK, P.C., 1425 K STREET,
 N.W., SUITE 200, WASHINGTON, DC, 20005
 NUMBER OF CLAIMS: 61
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 17 Drawing Page(s)
 LINE COUNT: 1217

CAN INDEXING IS AVAILABLE FOR THIS PATENT

AB The present invention relates to fluorescent cobalamins and uses of these compounds. More particularly, this invention relates to fluorescent cobalamins that comprise a fluorescent, phosphorescent, luminescent or light-producing compound covalently linked to cobalamin. These fluorescent cobalamins can be used to as diagnostic and prognostic

markers (a) to distinguish cancer cells and tissues from healthy cells and tissues, including identifying lymph nodes containing cancer cells, and (b) to determine if an individual will respond positively to chemotherapy using cobalamin-therapeutic biocojugates.

IT 11491-28-4, Transcobalamin II (In prep. of fluorescent cobalamins and uses for tumor tissue staining)
 RH 1441-28-4 USPTFULL
 CH Transcobalamin II (DCI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

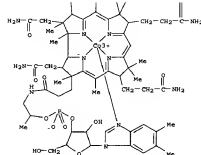
IT 11449-79-109, Cobalamins, Deriv. (In prep. of fluorescent cobalamins and uses for tumor tissue staining)
 RH 1246-79-1 USPTFULL
 CH Cobalamins, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1- α -D-xanthofuran-1H-benzimidazole-1-kappa(H3)), ion(in) (DCI) (CA INDEX NAME)

14 ANSWER 4 OF 23 USPTFULL (Continued)

PAGE 1-A



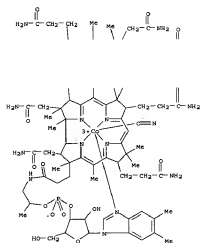
PAGE 3-A



IT 68-19-9, Cyanocobalamins (In prep. of fluorescent cobalamins and uses for tumor tissue staining)
 RH 68-19-9 USPTFULL
 CH Vitamin B12 (DCI, HCl) (CA INDEX NAME)

14 ANSWER 4 OF 23 USPTATFULL (Continued)

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16 ANSWER 4 OF 23 USPTATFULL (Continued)

IT 26264-26-89 26218-55-29, CSC 226 26218-77-89,

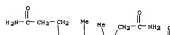
CSC 195

Prepn. of fluorescent cobalamins and uses for tumor tissue staining

26264-26-8 USPTATFULL

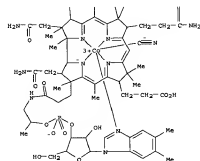
OH Cobaltic acid-3-oxo-pentamide, Co-(cyano-kappa C)-, dihydrogen phosphate (ester), inner salt, 3'-ester with (S,6-dimethyl-1-alpha-D-ribofuran-5-yl)-1H-benzimidazole-kappa N3) (SCI) (CA INDEX NAME)

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14 ANSWER 4 OF 23 USPTATFULL (Continued)

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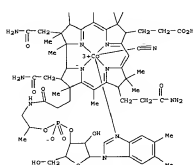
RN 36218-55-2 USPTATFULL

OH Cobaltic acid-3-oxo-pentamide, Co-(cyano-kappa C)-, dihydrogen phosphate (ester), inner salt, 3'-ester with (S,6-dimethyl-1-alpha-D-ribofuran-5-yl)-1H-benzimidazole-kappa N3) (SCI) (CA INDEX NAME)

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16 ANSWER 4 OF 23 USPTATFULL (Continued)

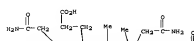
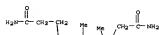
PAGE 2-A



RN 26218-77-8 USPTATFULL

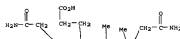
OH Cobaltic acid-3-oxo-pentamide, Co-(cyano-kappa C)-, dihydrogen phosphate (ester), inner salt, 3'-ester with (S,6-dimethyl-1-alpha-D-ribofuran-5-yl)-1H-benzimidazole-kappa N3) (SCI) (CA INDEX NAME)

PAGE 1-A



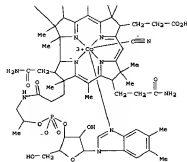
14 ANSWER 5 OF 23 USPATFULL (Continued)
ribofuranosyl-1H-benzimidazole-3-yl)-N,N-dimethyl-2,2,2-trifluoroethyl-2- (dihydrogen phosphate), inner salt, 3'-ester with (S)-2,2,2-trifluoroethyl-2- (dihydrogen phosphate) (PCI) (CA INDEX NAME)

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14 ANSWER 5 OF 23 USPATFULL (Continued)

PAGE 2-A



14 176356-84-3 USPATFULL
CN Cobaltic acid-oxo-pentamethine, Co-methyl-, dihydrogen phosphate (ester), inner salt, 3'-ester with (S)-2,2,2-trifluoroethyl-2- (dihydrogen phosphate) (PCI) (CA INDEX NAME)

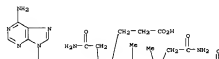
14 ANSWER 5 OF 23 USPATFULL (Continued)

PAGE 1-A

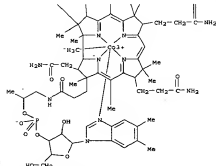


14 ANSWER 5 OF 23 USPATFULL (Continued)
(S)-2,2,2-trifluoroethyl-2- (dihydrogen phosphate) (PCI) (CA INDEX NAME)

PAGE 1-A

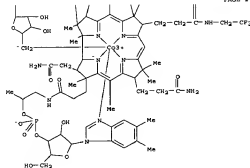


PAGE 2-A



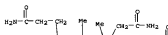
14 441127-79-5 USPATFULL
CN Cobaltic acid-oxo-pentamethine, Co-methyl-, dihydrogen phosphate (ester), inner salt, 3'-ester with (S)-2,2,2-trifluoroethyl-2- (dihydrogen phosphate) (PCI) (CA INDEX NAME)

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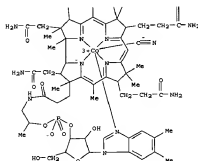
- 16 ANSWER 5 OF 23 USPATFULL (Continued)
 17 68-19-9, Cyanocobalamin 68-19-9B, Cyanocobalamin, OTFA
 conjugates 12774-24-2, Transcobalamin
 (transcobalamin binding conjugates useful for treatment and diagnosis
 of abnormal cellular proliferation)
 18 68-19-9 USPATFULL
 19 Vitamin B12 (EC), (CI) (CA INDEX NAME)

PAGE 1-A



- 16 ANSWER 5 OF 23 USPATFULL (Continued)

PAGE 2-A



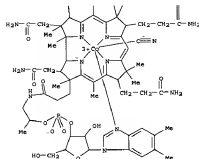
- 18 68-19-9 USPATFULL
 19 Vitamin B12 (EC), (CI) (CA INDEX NAME)

PAGE 1-A



- 16 ANSWER 5 OF 23 USPATFULL (Continued)

PAGE 2-A

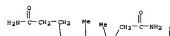


- 18 12774-24-2 USPATFULL
 19 Transcobalamin (EC), (CI) (CA INDEX NAME)

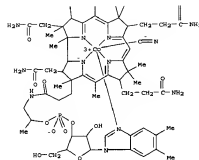
- 17 68-19-9B, Cyanocobalamin, reaction products with poly-L-lysine,
 OTFA conjugates
 (transcobalamin binding conjugates useful for treatment and diagnosis
 of abnormal cellular proliferation)
 18 68-19-9 USPATFULL
 19 Vitamin B12 (EC), (CI) (CA INDEX NAME)

- 16 ANSWER 5 OF 23 USPATFULL (Continued)

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- 17 128218-77-B2P, Cyanocobalamin-b-carboxylic acid, reaction products
 with poly-L-lysine hydrochloride
 (transcobalamin binding conjugates useful for treatment and diagnosis
 of abnormal cellular proliferation)

L6 ANSWER 7 OF 23 USPATFULL (Continued)

PAGE 1-A

L6 ANSWER 7 OF 23 USPATFULL (Continued)

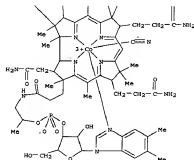
R24 376294-84-2 USRATFULL

CN Cobinac acid-maleg-pentamide, Co-methyl-, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1- α -D-ribofuranosyl)-2H-benzimidazole- κ .N3) (9C1) (CA INDEX NAME)

PAGE 1-A

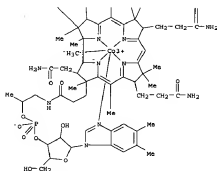


PAGE 2-A



L6 ANSWER 7 OF 23 USPATFLL (Continued)

PAGE 2-A



IT 38218-77-8DP, polylysine conjugates
(cobalamin compds. useful as cardiovascular agents and as imaging agents)

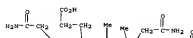
agent)

RN 38218-77-8 USPATFULL

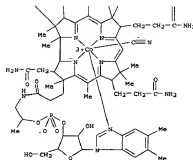
CH Cobanic acid-acetog-pentamide, Co-(cyano-kappa C)-, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1- α -D-ribofuranosyl-1H-benzimidazole-kappa N1) (DCI) (CA INDEX NAME)

16 ANSWER 7 OF 23 USPATFULL [Continued]

PAGE 1-A


$$\text{H}_2\text{N}-\overset{\overset{\text{O}}{\parallel}}{\text{C}}-\text{CH}_2-\overset{\overset{\text{CO}_2\text{H}}{\mid}}{\text{CH}_2}-\overset{\overset{\text{Me}}{\mid}}{\text{CH}}-\overset{\overset{\text{Me}}{\mid}}{\text{CH}}-\text{CH}_2-\overset{\overset{\text{O}}{\parallel}}{\text{C}}-\text{NH}_2$$

PAGE 2-A



IT 68-19-9D, Cyanocobalamin, cobalamin conjugates
(cobalamin compds. useful as cardiovascular agents and as imaging agents)

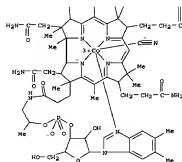
80N 68-19-2 USPATFILL

14 ANSWER 7 OF 23 USPATFULL (Continued)
CN Vitamin B12 (ECI, PCT) (CA INDEX NAME)

14 ANSWER 7 OF 23 USPATFULL (Continued)

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14 ANSWER 8 OF 23 USPATFULL

14 ANSWER 8 OF 23 USPATFULL (Continued)

PAGE 1-A

ACCESSION NUMBER: 2002 78717 USPATFULL
TITLE: Cobalamin compounds useful as antibiotic agents and as imaging agents
INVENTOR(S): Hogenkamp, Henricus P.C., Roseville, MN, UNITED STATES
Collins, Douglas A., Rochester, MN, UNITED STATES

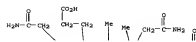
	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003042384	A1	20030411
APPLICATION INFO:	US 2001-073184	A1	20010331 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-108148P	20000931 (40)
DOCUMENT TYPE:	US 2001-067843P	20010209 (40)
FILE SEGMENT:	Utility	
LEGAL REPRESENTATIVE:	APPLICATION	
	KING & SPALDING, 191 PEACHTREE STREET, N.E., ATLANTA, GA, 30303-1763	

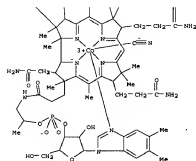
NUMBER OF CLAIMS: 10
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 4896

AB The invention provides cobalamin derivatives linked to an antibiotic and/or an imaging agent, as well as pharmaceutical compositions comprising the compounds and methods for using the compounds in treatment or diagnosis of a microbial infection.

IT 1812P-77-E 278294-84-2
(cobalamin compounds useful as antibiotic agents and as imaging agents)
RU 2818-77-E USPATFULL
CN Cobaltic acid-5-deoxy-pentamide, Co-(cyano-kappa-C1, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1,2,4-triazol-3-yl)-5'-ribofuranosyl-3'-benzimidazole-kappa-N3) (PCT) (CA INDEX NAME)



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RU 278294-84-2 USPATFULL

CN Cobaltic acid-5-deoxy-pentamide, Co-methyl, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1,2,4-triazol-3-yl)-5'-ribofuranosyl-3'-benzimidazole-kappa-N3) (PCT) (CA INDEX NAME)

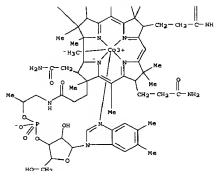
1,6 ANSWER 8 OF 23 USPATFULL (Continued)

PAGE 1-A



1,6 ANSWER 8 OF 23 USPATFULL (Continued)

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IT 38214-77-RDP, reaction products with poly-L-lysine
(cobalamin complex, useful as antibiotic agents and as imaging agents)
RU 38214-77-8 USPATFULL
CH Cobaltic acid-acyl pyridine, Co-lysine, kappa-C(=O)-dihydrogen phosphate
(ester), inner salt, 3'-ester with [5,6-dimethyl-1:1-alpha-D-
ribofuranose]-1H-benzimidazole-kappa-N3) (9CI) (CA INDEX NAME)

1,6 ANSWER 8 OF 23 USPATFULL (Continued)

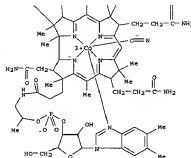
PAGE 1-A



1,6 ANSWER 8 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC DUPLICATE

ACCESSION NUMBER: 2001448745 BIOSIS
DOCUMENT NUMBER: PB9720010448745
TITLE: Radiolabeled labeling of vitamin B12 and
conjugates thereof.
AUTHOR(S): Collins, Douglas A.; Hogenkamp, Henricus Petrus
AS10988; Mayo Foundation for Medical Education and
Research; Regents of the University of Minnesota
PATENT INFORMATION: US 611355 April 03, 2001
SOURCE: Official Gazette of the United States Patent and Trademark
Office Patents, (Apr. 3, 2001) Vol. 1245, No. 1, pp. No
Pageination: 4 file
ISSN: 0598-1133
DOCUMENT TYPE: Patent
LANGUAGE: English
AB: A compound useful for in vivo imaging of organs and tumors is provided of
formula: #8772188 wherein #8772188 is a cobaltan, #8772188 is derived
from a corrin carboxylic acid group of said cobaltan, Y is a linking
group and Z is a chelating group, optionally comprising a
detectable radioisotope or a paramagnetic metal ion, and n is
1-3.

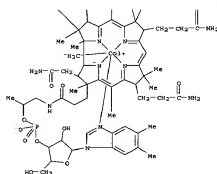
PAGE 2-A



14 ANSWER 11 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

14 ANSWER 11 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

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IT 38218-77-RDP, polylysine conjugates
 RS: RCT (Reactant); SMO (Synthetic Preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (cobalamin compds. useful as cardiovascular agents and as imaging
 agents)
 RX 38218-77-R CAPLUS
 CH Cobaltic acid-rodoph-gentamide, Co-(cyano-kappa.C)-, dihydrogen phosphate
 (salt), inner salt, 3'-ester with
 (5,6-dimethyl-1,2,4-triazol-3-yl)-D-ribofuranosyl-
 1H-benzimidazole-kappa.N3) (PCT) (CA INDEX NAME)

14 ANSWER 11 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

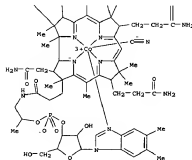
14 ANSWER 11 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)
 RX 48 10 9 CAPLUS
 CH Vitamin B12 (PCT) (CA INDEX NAME)

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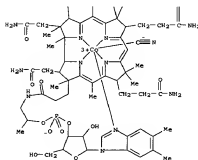
PAGE 2-A



IT 48-10-90, Cyanocobalamin, cobalamin conjugates
 RS: THO (Therapeutic Use); RMO: (Bio)organic acetyl) USES (Use)
 (cobalamin compds. useful as cardiovascular agents and as imaging
 agents)

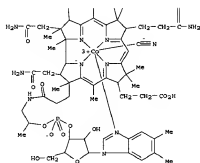


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16 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 2-A



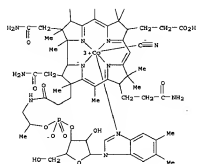
XX 2810-55-2 CAPLUS
 CH Cobaltic acid- α -hydroxy-pentamide, Co (cyano- κ -C), dihydrogen phosphate
 (ester), inner salt, 3'-ester with
 (5,6-dimethyl-1, α -D-ribofuranonyl-
 3H-benzimidazole- κ -N3) [PCI] [CA INDEX NAME]

16 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

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16 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

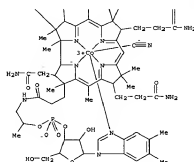
XX 2810-77-8 CAPLUS
 CH Cobaltic acid- α -hydroxy-pentamide, Co (cyano- κ -C), dihydrogen phosphate
 (ester), inner salt, 3'-ester with
 (5,6-dimethyl-1, α -D-ribofuranonyl-
 3H-benzimidazole- κ -N3) [PCI] [CA INDEX NAME]

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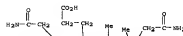
16 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 2-A



XX 82556-15-8 CAPLUS
 CH Cobaltic acid- α -hydroxy-tetramide, Co (cyano- κ -C), dihydrogen phosphate
 (ester), inner salt, 3'-ester with
 (5,6-dimethyl-1, α -D-ribofuranonyl-
 3H-benzimidazole- κ -N3) [PCI] [CA INDEX NAME]

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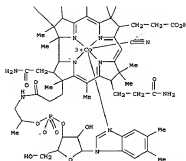


L6 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

L6 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 1-A

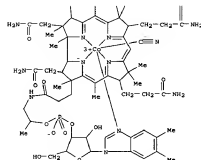
PAGE 2-A



17 68-19-988, Cyanocobalamin, poly-lysine and SPDA conjugates
 Re: SPN (Synthesis preparation); PREP (Preparation)
 (cobalamin conjugates useful as imaging and therapeutic agents)
 RN 68-19-9 CAPLUS
 CN Vitamin B12 (B12, B12) (CA INDEX NAME)



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L6 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)
 REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L6 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)
 REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

INVENTOR(S):
 HERRGREN, Kristina, AMG Karp, Sweden
 Sandberg, Bengt, Lund, Sweden
 Sjogren, Hans Olof, Lund, Sweden
 Skene, John Erik, Lund, Sweden
 Mitra Medical Technology AB, Lund, Sweden (non-U.S.
 corporation)

NUMBER	KIND	DATE
US 6261394	B1	2001/06/26
WO 9212780		1992/08/06
US 1993-06047		1993/03/18 (A)
WO 1993-02820		1993/03/15
		1993/03/12 PCT 371 date
		1993/03/12 PCT 102(a) date

NUMBER	DATE
SE 1991-142	1991/01/17
DOCUMENT TYPE	UTILITY
FILE SEGMENT	GRANTED
PRIMARY EXAMINER	WILK, Jean C.
LEGAL REPRESENTATIVE	Swanson & Bratschen L
NUMBER OF CLAIMS	1
EXEMPLARY CLAIM	1
NUMBER OF DRAWINGS	4 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT	656

CN INDEXING IS AVAILABLE FOR THIS PATENT.
 AB A method and a system is described for reducing non-target levels of
 specific molecules intended for diagnostic and/or therapeutic
 applications to vertebrate hosts, wherein said molecules are
 administered to a vertebrate host, and kept therein for a certain time
 in order to be concentrated to the target by being attached thereto, the
 molecules which are not attached to the target are removed from the
 blood circulation system or at least reduced to a lower concentration
 by passing the blood through an extracorporeal device.
 17 68-19-9, Vitamin B12 33408-76-3, Cobalamin
 (intracorporeal, immunoadsorption of targeting mole in relation to)
 RN 68-19-9 USPATFULL
 CN Vitamin B12 (B12, B12) (CA INDEX NAME)

1,6 ANSWER 13 OF 23 USPATFULL (Continued)

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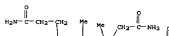
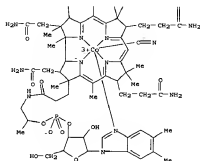
1,6 ANSWER 13 OF 23 USPATFULL (Continued)

BM 13408-78-1 USPATFULL
 CH Cobalamide, dihydrogen phosphate (ester), inner salt, 1'-ester with (5,6-dimethyl-1- α -D-ribofuranosyl-1H-benzimidazole-kappa-N3), ion(1+) (PCT) (CA INDEX NAME)

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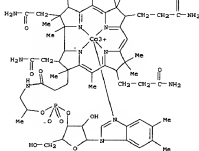


PAGE 2-A



1,6 ANSWER 13 OF 23 USPATFULL (Continued)

PAGE 2-A



1,6 ANSWER 14 OF 23 USPATFULL

ACCESSION NUMBER: 3050.87974 USPATFULL
 TITLE: Radiochemical labeling of vitamin B sub 12 and coenzyme thereof
 INVENTOR(S): Collins, Douglas A., Rochester, MN, United States
 Hogenkamp, Henricus Petrus, Rosville, NJ, United States
 PATENT ASSIGNEE(S): Regents of the University of Minnesota, Minneapolis, MN, United States (U.S. corporation)
 Mayo Foundation for Medical Education and Research, Rochester, MN, United States (U.S. corporation)

NUMBER	KIND	DATE
US 608280		28080801
US 1989-354053		19890713 (S)
Division of Ser. No. US 1988-55227		Filed on 13 Apr 1988 which is a division of Ser. No. US 1985-557958, filed on 13 Nov 1985, now patented, Pat. No. US

571911

DOCUMENT TYPE: Utility
 FILE SUBJECT: Organic
 PRIMARY EXAMINER: Jones, John G.
 ASSISTANT EXAMINER: Jones, Doreen
 LEGAL REPRESENTATIVE: Schweigen, Landberg, Moesener & Kluth P.A.
 NUMBER OF CLAIMS: 5
 BRIEF SUMMARY: 1
 NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)

LINE COUNT

OAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A compound useful for in vivo imaging of organs and tumors is provided of formula: ##STR1## wherein ##STR2## is a cobalamin, ##STR3## is derived from a certain carboxylic acid group of said cobalamin, Y is a linking group and X is a chelating group, optionally comprising a detectable radioisotope or a paramagnetic metal ion, and n is 1-3.

IT 13408-78-10, Cobalamin, conjugates with linker and (radio)labeled chelate

Indolamine (radio)labeled deriv. group for medical imaging

BM 13408-78-1 USPATFULL

CH Cobalamide, dihydrogen phosphate (ester), inner salt, 1'-ester with (5,6-dimethyl-1- α -D-ribofuranosyl-1H-benzimidazole-kappa-N3), ion(1+) (PCT) (CA INDEX NAME)

L6 ANSWER 14 OF 23 USPATFULL (Continued)

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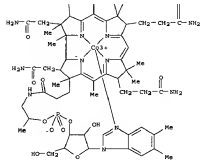
L6 ANSWER 14 OF 23 USPATFULL (Continued)

IT 13774-24-3, Transcobalamin
(cobalamin deriv. binding to anticancer factor and transcobalamin
protein)
RX 12774-24-3 USPATFULL
CH Transcobalamin (PCT) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE



PAGE 2 A



L6 ANSWER 15 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS
INC DUPLICATES

ACCESSION NUMBER: 2000/29107 BIOSIS
DOCUMENT NUMBER: B972000023107
TITLE: Radiolabeled labeling of vitamin B12 and
conjugates thereof
AUTHOR(S): Collins, Douglas A. (1); Hogenkamp, Hendricus Petrus
(1); Rochester, MN USA
ASSIGNEE: Mayo Medical Ventures, Rochester, MN, USA,
Regents of the University of Minnesota
US 404533 December 21, 1999
OFFICIAL GAZETTE OF THE UNITED STATES Patent and Trademark
Office Patents, (Dec. 21, 1999) Vol. 1229, No. 3, pp. M0
Dugundion, 8 File
ISR: 0098-1133
PATENT
DOCUMENT TYPE: English
LANGUAGE: English
AB A compound useful for in vivo imaging of organs and tumors is provided of
formula: #STR1## wherein #STR2## is a cobalamin, #STR3## is derived
from a carboxylic acid group of said cobalamin, Y is a linking
group and X is a chelating group, optionally comprising a
detectable radionuclide or a paramagnetic metal ion, and n is
1-3.

L6 ANSWER 15 OF 23 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1998/207280 CAPLUS
DOCUMENT NUMBER: 158 275101
TITLE: One and same precursor filled microspheres as
topical and subcutaneous delivery vehicles
Unger, Evan C.; Matsunaga, Terry O.; Yellowhair,
David
INVENTOR(S): David
PATENT ASSIGNOR(S): U.S. 45 pp., Cont.-in-part of U.S. Ser. No. 107,305.
SOURCE: Iwama Pharmaceutical Corp., USA
CODEN: UGXKXN
LANGUAGE: Patent
FAMILY ACC. NUM. COUNT: English
19
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5712372	A	19980331	US 1994-346426	19941129
US 5288499	A	19920218	US 1990-168028	19900820
WO 9109628	A1	19910711	NO 1990-057500	19901219
SM: AT, BE, CH, DK, DE, ES, FR, GB, GR, IT, LI, NL, SE				
AT 380170	E	19890415	AT 1981-902857	19800319
ES 211051	T3	19990716	ES 1991-500857	19901219
JP 3109154	B2	20000728	JP 1991-501676	19901219
JP 05502475	T3	19930513		
US 5288496	A	19930720	US 1991-717084	19910618
WO 9222247	A1	19921223	NO 1992-052615	19920331
SM: AT, BE, CH, DK, DE, ES, FR, GB, GR, IT, LI, NL, SE				
AU 8620005	A1	19930113	AU 1991-201495	19900331
AU 467471	B2	19960328		
JP 0508184	T3	19940922	JP 1991-500847	19900331
EP 616508	A1	19940928	EP 1992-912456	19920331
EP 616509	B1	20010718		
SM: AT, BE, CH, DK, DE, ES, FR, GB, GR, IT, LI, NL, MC, NL, SE				
EP 460847	A1	19920705	EP 1990-912455	19900331
EP 460847	B1	19981028		
SM: AT, BE, CH, DK, DE, ES, FR, GB, GR, IT, LI, NL, MC, NL, SE				
AT 172625	E	19891116	AT 1990-912456	19900331
ES 2128713	T3	19990212	ES 1990-912455	19900331
JP 3053217	B2	20000619	JP 1992-500849	19900331
AT 203146	E	20010815	AT 1990-912456	19900331
ES 2150280	T3	20011201	ES 1992-912456	19900331
US 4489454	A	19921128	US 1991-74329	19910611
US 5505076	A	19941203	US 1991-74350	19910611
US 5140514	A	19940920	US 1991-68268	19910707
US 5549395	A	19960906	US 1992-160322	19931110
US 5085112	A	19961217	US 1992-160467	19931110
US 5760880	A	19980623	US 1994-139443	19940829
WO 9428474	A1	19941323	NO 1994-058563	19940519
SM: AT, BE, CH, DK, DE, ES, FR, GB, GR, IT, LI, NL, MC, NL, PT, SE				
US 5770204	A	19980620	US 1994-307305	19940914
CA 2177713	A1	19950608	CA 1994-217773	19941110
WO 9515115	A1	19950608	NO 1994-051317	19941130
SM: AT, BE, CH, DK, DE, ES, FR, GB, GR, IT, LI, NL, MC, NL, PT, SE				
JP 0906088	T3	19970617	JP 1990-511563	19941110
US 5571497	A	19961105	US 1995-468096	19980606
CA 1303010	A	19980829	CA 1996-130269	19980227

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$$\text{H}_2\text{N}-\overset{\text{O}}{\parallel}\text{C}-\text{CH}_2-\text{CH}_2-\text{Me} \quad \text{Me}-\text{CH}_2-\overset{\text{O}}{\parallel}\text{C}-\text{NH}_2$$

The chemical structure shows a central cobalt(III) ion coordinated by four nitrogen atoms in a corrin-like macrocycle. The macrocycle has several methyl groups and side chains. One side chain is a propionamide group ($\text{CH}_2\text{CH}_2\text{C}(=\text{O})\text{NH}_2$). Another is a side chain with a hydroxymethyl group (HO-CH_2) and a phosphate group (O-P-O). A third side chain is a side chain with a hydroxyl group (OH) and a side chain with a methyl group (Me). The cobalt ion is also coordinated by a water molecule (H_2O) and a side chain with a methyl group (Me).

16 AMSDR 17 OF 23 USPATFULL
ACCESSION NUMBER: 1996.39499 USPATFULL
TITLE: Randomized labeling of vitamin B.sub.12 and coenzyme therapy
INVENTOR(S): Collins, Douglas A., Rochester, MN, United States
Hogenkamp, Henricus Petrus, Roosevelt, MN, United States
PATENT ASSIGNEE(S): Regents of the University of Minnesota, Minneapolis, MN, United States (U.S. corporation)
Mayo Foundation for Medical Education and Research, Rochester, MN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5739313		19980414
APPLICATION INFO.:	US 1996-557956		19951112 (\$)
DOCUMENT TYPE:			
FILE SEQUENCE:			
PRIMARY EXAMINER:		Granted	
ASSISTANT EXAMINER:		Gittomer, Ralph	
LEGAL REPRESENTATIVE:		Crane, L. Eric	
NUMBER OF CLAIMS:		Schwegman, Lundberg, Moewener & Kluth, P.A.	
EXEMPLARY CLAIM:		13	
NUMBER OF DRAWINGS:		2 Drawing Figure(s); 2 Drawing Page(s)	

ASB A compound useful for *in vivo* imaging of organs and tissues is provided of formula: *N#C1C=CC2=C(C1)N(C2)C3=CC=CC=C3C4=CC=CC=C4 wherein *N#C is a cobaltium, *N#C1C=CC2=C(C1)N(C2)C3=CC=CC=C3C4=CC=CC=C4 is a linking group and X is a detectable radioisotope group, optional comprising a detectable radioisotope or a paramagnetic metal ion.

IT 13406-78-10. Cobaltium, conjugates with linker and (radio)labeled chelate (cobaltium (radio)labeled deriv. prepn. for medical imaging)

NN 13406-78-11 USPATUL Cobaltium, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,8-diethyl-1,4-alpha-D-ribofuranose)-N-benzimidazole-:kappa.N3),

11408-78-1 USPATFULL
 Cobinamide, dihydrogen phosphate (ester), inner salt, 3'-ester with
 (5,6-dimethyl-1- α , α -D-ribofuranosyl-1H-benzimidazole-, κ :N3)
 ion(1+)(9CI) (CA INDEX NAME)

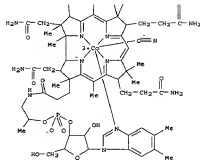
L6 ANSWER 21 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

L6 ANSWER 21 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 1-A



PAGE 2-A



L6 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2003 ACS

L6 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

AUTHOR(S):

CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE:

LANGUAGE:

AB To detect new genetic variation in human plasma proteins, a panel of 63 radioactive substances were screened as potential radioligands using polyacrylamide gel electrophoresis and autoradiography. Vitamins, hormones, drugs, amino acids, purines, pyrimidines, sugars, and lipids labeled with ¹⁴C or other radioisotopes were among those substances tested. A majority bound to albumin and a smaller fraction to gamma-globulin and lipoproteins. Several vitamins and hormones bound to specific alpha-

and beta-globulins. Electrophoretic polymorphisms of the vitamin D-binding protein (group-specific component), a vitamin B12-binding protein (transcobalamin II), and thyroxine-binding alpha-globulin were noted. Transcobalamin-binding beta-globulin showed an electrophoretic polymorphism in Caucasians and a possible deficiency allele. Transcortin showed an electrophoretic doublet in all persons tested but no electrophoretic variation. A protein binding a deriv. of norepinephrine or epinephrine was identified as transferrin. A nonpolymorphic protein binding ethanol to albumin and binding a deriv. of riboflavin was tentatively identified as a fraction of albumin with mobility altered as

a result of interaction with the ligand.

69-13-9

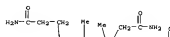
RE-ANAL (Analytical study)

(Protein binding by detection of, genetics in relation to)

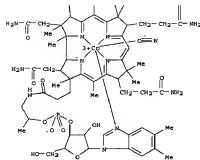
69-13-9 CAPLUS

ON Vitamin B12 (B12, B12) (CA INDEX NAME)

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16 ANSWER 33 OF 31 MEDLINE
ACCESSION NUMBER: 72020287 MEDLINE
DOCUMENT NUMBER: 72020287 PubMed ID: 4999929
TITLE: Measurement of glomerular filtration rate.
AUTHOR: Materson B J
SOURCE: CRC CRITICAL REVIEWS IN CLINICAL LABORATORY SCIENCES.
(1971)
Jvol 2 (1) 1-42. Ref: 242
Journal code: 1247714. ISSN: 0550-8191.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 197112
ENTRY DATE: Entered STM: 19900310
Last Updated on STM: 19990129
Entered MedLine: 19711201